What is claimed is

- 1. An image processing apparatus comprising:
- 2 an acquisition unit for acquiring image data that
- 3 includes a plurality of pixels;
- a first-judgment unit for setting each of the plurality
- 5 of pixels as a first target pixel and performing a
- 6 first-judgment as to whether the first target pixel is an
- 7 isolated pixel for a judgment of a halftone-dot area;
- a first-judgment result correction unit for correcting
- 9 results of the first-judgment, to determine isolated pixels
- 10 to be used in a second-judgment; and
- a second-judgment unit for setting each of the plurality
- 12 of pixels as a second target pixel and performing the
- 13 second-judgment as to whether the second target pixel is in
- 14 a halftone-dot area, by referring to the corrected results
- 15 of the first-judgment.
 - 2. The image processing apparatus of Claim 1,
 - wherein the second-judgment unit counts a number of
 - 3 isolated pixels determined to be used in the second-judgment,
 - 4 in a predetermined area including the second target pixel,
 - 5 by referring to the corrected results of the first-judgment,
 - 6 and compares the count number and a predetermined threshold,
 - 7 to judge whether the second target pixel is in a halftone-dot

- 8 area.
- 1 3. The image processing apparatus of Claim 1,
- wherein the first-judgment result correction unit
- 3 corrects a result of the first-judgment relating to the first
- 4 target pixel, by referring to results of the first-judgment
- 5 relating to a plurality of pixels present at predetermined
- 6 positions with respect to the first target pixel.
- 1 4. The image processing apparatus of Claim 3,
- wherein when the first-judgment unit judges that a
- 3 plurality of pixels positioned in a group are isolated pixels,
- 4 the first-judgment result correction unit performs such
- 5 correction processing that decreases a number of isolated
- 6 pixels to be used in the second-judgment.
- 5. The image processing apparatus of Claim 1,
- wherein the first-judgment result correction unit
- 3 includes a filter with a predetermined pattern that is used
- 4 when correcting the results of the first-judgment.
- 6. The image processing apparatus of Claim 1, further
- 2 comprising
- an image correction unit for correcting the image data,
- 4 in accordance with results of the second-judgment.

- 7. The image processing apparatus of Claim 6,
- wherein when the second-judgment unit judges that the
- 3 second target pixel is in a halftone-dot area, the image
- 4 correction unit performs, on the second target pixel, image
- 5 correction processing suitable for a pixel in a halftone-dot
- 6 area.
- 8. The image processing apparatus of Claim 6, further
- 2 comprising
- 3 a halftone-dot area extension unit for extending a
- 4 halftone-dot area that is composed of pixels whose judgment
- 5 results of the second-judgment unit are affirmative,
- 6 wherein the image correction unit corrects a part of
- 7 the image data that corresponds to the halftone-dot area
- 8 extended by the halftone-dot area extension unit.
- 9. An image forming apparatus, comprising:
- 2 an acquisition unit for acquiring image data that
- 3 includes a plurality of pixels;
- a first-judgment unit for setting each of the plurality
- 5 of pixels as a first target pixel and performing a
- 6 first-judgment as to whether the first target pixel is an
- 7 isolated pixel for a judgment of a halftone-dot area;
- 8 a first-judgment result correction unit for correcting
- 9 results of the first-judgment, to determined isolated pixels

- 10 to be used in a second-judgment;
- a second-judgment unit for setting each of the plurality
- 12 of pixels as a second target pixel and performing the
- 13 second-judgment as to whether the second target pixel is in
- 14 a halftone-dot area, by referring to the corrected results
- 15 of the first-judgment;
- an image correction unit for correcting the image data
- in accordance with results of the second-judgment; and
- an image forming unit for forming an image based on the
- 19 image data corrected by the image correction unit.
 - 1 10. An image processing method, comprising:
- an acquisition step for acquiring image data that
- 3 includes a plurality of pixels;
- a first-judgment step for setting each of the plurality
- 5 of pixels as a first target pixel and performing a
- 6 first-judgment as to whether the first target pixel is an
- 7 isolated pixel for a judgment of a halftone-dot area;
- a first-judgment result correction step for correcting
- 9 results of the first-judgment, to determine isolated pixels
- 10 to be used in a second-judgment; and
- a second-judgment step for setting each of the plurality
- 12 of pixels as a second target pixel and performing the
- 13 second-judgment as to whether the second target pixel is in
- 14 a halftone-dot area, by referring to the corrected results

- 15 of the first-judgment.
 - 1 11. The image processing method of Claim 10,
- wherein in the first-judgment result correction step,
- 3 a result of the first-judgment relating to the first target
- 4 pixel is corrected by referring to results of the
- 5 first-judgment relating to a plurality of pixels present at
- 6 predetermined positions with respect to the first target pixel.
- 1 12. The image processing method of Claim 10, further
- 2 comprising
- an image correction step for correcting the image data,
- 4 in accordance with results of the second-judgment.